

App'l. No. 10/691,126  
Am.dt. dated June 20, 2006  
Reply to Office Action of March 20, 2006

Atty. Ref. 81754.0100  
Customer No. 26021

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously presented) A method of intercorporate information-sharing between a product-manufacturing company and a product-inspecting company comprising:

transmitting product quality and manufacturing number information from a product-manufacturing company's database storage device to a product-inspecting company's database storage device;

inspecting a product, manufactured by the product-manufacturing company, by the product-inspecting company, including calculating a yield rate from inspected result information and comparing the yield rate with a prearranged yield rate, and predictively calculating a product shortage number when the yield rate is lower than the prearranged yield rate, and storing the inspected result information of the product in the product-inspecting company's database storage device; and

transmitting the inspected result information, including the predictively calculated product shortage number, from the product-inspecting company's database storage device to the product-manufacturing company's database storage device.

2. (Original) The method of intercorporate information-sharing according to claim 1, wherein the transmitting product quality and manufacturing number information step includes:

forming first coded information from the product quality and the manufacturing number information;

transmitting and storing the first coded information to and in a server in the product-inspecting company; and

transmitting and decoding the first coded information stored in the server to and in the product-inspecting company's database storage device.

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3. (Original) The method of intercorporate information-sharing according to claim 2, wherein the transmitting the inspected result information step includes:

forming second coded information from the manufacturing number and the inspected result information;

transmitting and storing the second coded information to and in the server; and

transmitting and decoding the second coded information stored in the server to and in the product-manufacturing company's database storage device.

4. (Canceled)

5. (Previously presented) A method of intercorporate information-sharing between a product-manufacturing company and a product-inspecting company comprising:

issuing a manufacturing number regarding a product in the product-manufacturing company;

transmitting product quality and manufacturing number information from a product-manufacturing company's database storage device to a product-inspecting company's database storage device;

recognizing the product-manufacturing company based on the manufacturing number information;

issuing a product number regarding the product and relating the manufacturing number with the product number in the product-inspecting company;

inspecting a product, manufactured by the product-manufacturing company, by the product-inspecting company, and obtaining inspected result information of the product;

relating the inspected result information with the manufacturing number information;

establishing an access right to the recognized product manufacturing company; and

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transmitting the inspected result information and the manufacturing number information from the product-inspecting company to the product-manufacturing company, where the access right has been established, via a network.

6. (Original) A method of intercorporate information-sharing between a plurality of product-manufacturing companies and a product-inspecting company comprising:

issuing a manufacturing number regarding a product in one of the product-manufacturing companies;

transmitting product quality and manufacturing number information including the manufacturing number from a product-manufacturing company's database storage device to a product-inspecting company's database storage device;

recognizing one of the product-manufacturing companies, which manufactured the product, among a plurality of the product-manufacturing companies based on the manufacturing number and issuing a product number including information for recognizing one of the product-manufacturing companies, which manufactured the product, in the product-inspecting company;

relating the manufacturing number with the product number; inspecting the product, manufactured by one of the product-manufacturing companies, by the product-inspecting company and obtaining inspected result information of the product;

relating the inspected result information, the product number, and the manufacturing number information to each other and transmitting the information to a server;

establishing an access right for accessing the inspected result information and information including the manufacturing number of the product to one of the product-manufacturing companies recognized based on the product number; and

transmitting the inspected result information and the manufacturing number information of the product from the server to one of the product-manufacturing companies, where the access right has been established, via a network.

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7. (Previously presented) A system of intercorporate information-sharing between a product-manufacturing company and a product-inspecting company comprising:

- a storage device that stores a product-manufacturing company's database, relating product quality information with manufacturing number information;

- a storage device that stores a product-inspecting company's database, relating product quality information and the manufacturing number information with inspected result information and a product number regarding a product and storing this information and the product number, and that stores an access right that is established if the product-manufacturing company is recognized based on the manufacturing number information;

- a server connected to a network;

- a transmitter that transmits the product quality and the manufacturing number information from a storage device that stores the product-manufacturing company's database to the server; and

- a transmitter that transmits the inspected result information and the manufacturing number information from the storage device that stores the product-inspecting company's database to the server, wherein the product-manufacturing company is allowed to receive the inspected result information if the access right has been established.

8. (Previously presented) A system of intercorporate information-sharing between a product-manufacturing company and a product-inspecting company comprising:

- a storage device that stores a product-manufacturing company's database, relating product quality information regarding a product with manufacturing number information regarding the product and storing this information;

- a storage device that stores a product-inspecting company's database, relating the product quality information and the manufacturing number information with inspected result information and a product number regarding the

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product and storing this information and the product number, and that stores a predictively calculated product shortage number based on a comparison between a yield rate from the inspected result information and a prearranged yield rate;

a server connected to a network;

an encoder that encodes the product quality information and the manufacturing number information, which are stored in the storage device that stores the product-manufacturing company's database, as first coded information;

a transmitter that transmits the first coded information from the storage device that stores the product-manufacturing company's database to the server;

an encoder that encodes the inspected result information, the predictively calculated product shortage number and the manufacturing number information, which are stored in the storage device that stores the product-inspecting company's database, as second coded information; and

a transmitter that transmits the second coded information from the storage device that stores a product-inspecting company's database to the server.

9. (Previously presented) A system of intercorporate information-sharing among a product-manufacturing company, a product-inspecting company, and a product-ordering company comprising:

a storage device that stores a product-manufacturing company's database, relating product quality information regarding a product with manufacturing number information regarding the product and storing this information;

a storage device that stores a product-inspecting company's database, relating the product quality information and the manufacturing number information with inspected result information and a product number regarding the product and storing this information and the product number, and that stores an access right that is established if the product-manufacturing company is recognized based on the manufacturing number information;

a server connected to a network;

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a transmitter that transmits the product quality information and the manufacturing number information from the storage device that stores the product-manufacturing company's database to the server;

a transmitter that transmits the inspected result information and the manufacturing number information from the storage device that stores the product-inspecting company's database to the server;

a transmitter that transmits the inspected result information and the manufacturing number information from the server to the storage device that stores the product-manufacturing company's database when the access right has been established;

a transmitter that transmits the product quality information and the manufacturing number information from the server to the storage device that stores the product-inspecting company's database; and

a transmitter that transmits at least one of the product quality and the inspected result information, and the manufacturing number information from the server to a storage device that stores a product-ordering company's database.

10. (Previously presented) A method of processing information comprising:

receiving first coded information, into which manufacturing number and product quality information regarding a product are coded and stored in a server;

decoding the first coded information into the manufacturing number information and the product quality information;

recognizing the product-manufacturing company based on the manufacturing number information and establishing an access right allowing the product-manufacturing company to receive second coded information;

storing the manufacturing number information and the product quality information in a storage device that stores a database;

inspecting the product, which was manufactured, and storing inspected result information of the product in the storage device that stores a database;

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relating the manufacturing number information with the inspected result information;

coding the manufacturing number information and the inspected result information into second coded information; and

transmitting the second coded information to the server when the access right has been established.

11. (Currently amended) A method of processing information comprising:  
storing manufacturing number information and product quality information regarding a product;

coding the manufacturing number information and the product quality information into first coded information;

transmitting the first coded information to a server;

receiving the first coded information from the server; and

coding the manufacturing number information and inspected result information regarding the product into second coded information;

~~decoding the second coded information, into which the manufacturing number information and inspected result information regarding the product are coded,~~ into the manufacturing number information and the inspected result information; and

a predictively ~~calculated~~ calculating product shortage number based on a comparison between a yield rate from the inspected result information and a pre-arranged yield rate.

12. (Original) A computer program operating anyone of the elements described in the method of intercorporate information-sharing as claimed in claim 1, wherein each step described in claim 1 is coded.

13. (Previously presented) A method of intercorporate information-sharing between a product-manufacturing company and a product-inspecting company comprising:

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transmitting product quality and manufacturing number information from a means for storing a product-manufacturing company's database to a means for storing a product-inspecting company's database;

inspecting a product, manufactured by the product-manufacturing company, by the product-inspecting company, including calculating a yield rate from the inspected result information and comparing the yield rate with a prearranged yield rate, and predictively calculating a product shortage number when the yield rate is lower than the prearranged yield rate, and storing the inspected result information of the product in the means for storing a product-inspecting company's database; and

transmitting the inspected result information, including the predictively calculated product shortage number, from the means for storing a product-inspecting company's database to the means for storing a product-manufacturing company's database.

14. (Original) The method of intercorporate information-sharing according to claim 13, wherein the transmitting product quality and manufacturing number information step includes:

forming first coded information from the product quality and manufacturing number information;

transmitting and storing the first coded information to and in a server in the product-inspecting company; and

transmitting and decoding the first coded information stored in the server to and in the product-inspecting company's database.

15. (Original) The method of intercorporate information-sharing according to claim 14, wherein the transmitting the inspected result information step includes:

forming second coded information from the manufacturing number and inspected result information;

transmitting and storing the second coded information to and in the server; and



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transmitting and decoding the second coded information stored in the server to and in the product-manufacturing company.

16-19. (Canceled)

20. (Previously presented) A system of intercorporate information-sharing between a product-manufacturing company and a product-inspecting company comprising:

a means for storing a product-manufacturing company's database, relating product quality information with manufacturing number information;

a means for storing a product-inspecting company's database, relating product quality information and the manufacturing number information with inspected result information and a product number regarding a product and storing this information and the product number, and that stores an access right that is established if the product-manufacturing company is recognized based on the manufacturing number information;

a server connected to a network;

a means for transmitting the product quality and the manufacturing number information from the means for storing a product-manufacturing company's database to the server; and

a means for transmitting the inspected result and the manufacturing number information from the means for storing a product-inspecting company's database to the server, wherein the product-manufacturing company is allowed to receive the inspected result information if the access right has been established.